

WEST Search History

DATE: Friday, March 10, 2006

Hide?	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L4	L3 near5 dehydrogenase	34
<input type="checkbox"/>	L3	2-keto-D-glucon\$3 or kdg	293
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L2	L1.pn.	1
<input type="checkbox"/>	L1	5795761	12

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 34 returned.

☐ 1. Document ID: US 20050227337 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 34

File: PGPB

Oct 13, 2005

PGPUB-DOCUMENT-NUMBER: 20050227337

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050227337 A1

TITLE: Method for producing ascorbic acid intermediates

PUBLICATION-DATE: October 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Boston, Matthew Grant	San Carlos	CA	US
Swanson, Barbara A.	San Francisco	CA	US

US-CL-CURRENT: [435/126](#); [435/138](#), [435/252.3](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 2. Document ID: US 20050208662 A1

L4: Entry 2 of 34

File: PGPB

Sep 22, 2005

PGPUB-DOCUMENT-NUMBER: 20050208662

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050208662 A1

TITLE: Enterobacteriaceae fermentation strains

PUBLICATION-DATE: September 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fowler, Timothy	San Carlos	CA	US
Causey, Stuart C.	Palo Alto	CA	US

US-CL-CURRENT: [435/488](#); [435/252.3](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 3. Document ID: US 20050112734 A1

L4: Entry 3 of 34

File: PGPB

May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050112734

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050112734 A1

TITLE: Metabolically engineered bacterial strains having non-functional endogenous gluconate transporters

PUBLICATION-DATE: May 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dodge, Timothy C.	Sunnyvale	CA	US
Kumar, Manoj	Fremont	CA	US
Rashid, M. Harunur	Sunnyvale	CA	US
Valle, Fernando	Burlingame	CA	US

US-CL-CURRENT: [435/126](#); [435/193](#), [435/252.3](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 4. Document ID: US 20050106693 A1

L4: Entry 4 of 34

File: PGPB

May 19, 2005

PGPUB-DOCUMENT-NUMBER: 20050106693

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050106693 A1

TITLE: Metabolically engineered bacterial strains having enhanced 2-keto-D-gluconate accumulation

PUBLICATION-DATE: May 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dodge, Timothy C.	Sunnyvale	CA	US
Rashid, M. Harunar	Sunnyvale	CA	US
Valle, Fernando	Burlingame	CA	US

US-CL-CURRENT: [435/138](#); [435/252.3](#), [435/252.31](#), [435/252.33](#), [435/488](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 5. Document ID: US 20050080248 A1

L4: Entry 5 of 34

File: PGPB

Apr 14, 2005

PGPUB-DOCUMENT-NUMBER: 20050080248
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050080248 A1

TITLE: Multimeric oxidoreductases

PUBLICATION-DATE: April 14, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Caldwell, Robert M.	Belmont	CA	US
Rashid, M. Harunur	Sunnyvale	CA	US
Valle, Fernando	Burlingame	CA	US

US-CL-CURRENT: 536/23.2; 435/189, 435/320.1, 435/325, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 6. Document ID: US 20050032088 A1

L4: Entry 6 of 34

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050032088
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050032088 A1

TITLE: 2,5-DKG permeases

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dartois, Veronique A.	San Diego	CA	US
Hoch, James A.	La Jolla	CA	US
Valle, Fernando	Burlingame	CA	US
Kumar, Manoj	Fremont	CA	US

US-CL-CURRENT: 435/6; 435/193, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 7. Document ID: US 20040180413 A1

L4: Entry 7 of 34

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040180413
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040180413 A1

TITLE: Method for producing ascorbic acid intermediates

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Boston, Matthew Grant	San Carlos	CA	US
Swanson, Barbara A.	San Francisco	CA	US

US-CL-CURRENT: 435/126

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 8. Document ID: US 20040030113 A1

L4: Entry 8 of 34

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030113

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030113 A1

TITLE: 2,5-Dkg permeases

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kumar, Manoj	Fremont	CA	US
Valle, Fernando	Burlingame	CA	US
Dartois, Veronique A.	San Diego	CA	US
Hoch, James A.	La Jolla	CA	US

US-CL-CURRENT: 536/23.5; 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 9. Document ID: US 20040029234 A1

L4: Entry 9 of 34

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040029234

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040029234 A1

TITLE: Enhanced 2-keto-l-gulonic acid production

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
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Kumar, Manoj	Fremont	CA	US
Valle, Fernando	Burlingame	CA	US
Dartois, Veronique A.	San Diego	CA	US
Hoch, James A.	La Jolla	CA	US

US-CL-CURRENT: [435/75](#); [435/252.3](#), [435/471](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw De
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☐ 10. Document ID: US 20030073200 A1

L4: Entry 10 of 34

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030073200

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030073200 A1

TITLE: Uncoupled productive and catabolic host cell pathways

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dodge, Timothy C.	Sunnyvale	CA	US
Valle, Fernando	Burlingame	CA	US

US-CL-CURRENT: [435/85](#); [435/105](#), [435/89](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw De
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L3 near5 dehydrogenase

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Search Results - Record(s) 11 through 20 of 34 returned.

☐ 11. Document ID: US 20030040086 A1

Using default format because multiple data bases are involved.

L4: Entry 11 of 34

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040086

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040086 A1

TITLE: Methods for the production of products in host cells

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dodge, Timothy C.	Sunnyvale	CA	US
Valle, Fernando	Burlingame	CA	US

US-CL-CURRENT: [435/126](#); [435/137](#), [435/146](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 12. Document ID: US 20020177198 A1

L4: Entry 12 of 34

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177198

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177198 A1

TITLE: METHOD FOR PRODUCING ASCORBIC ACID INTERMEDIATES

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Boston, Mathew Grant	San Carlos	CA	US
Swanson, Barbara A.	San Francisco	CA	US

US-CL-CURRENT: [435/132](#); [435/69.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 13. Document ID: US 20020177197 A1

L4: Entry 13 of 34

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177197
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020177197 A1

TITLE: METHOD FOR PRODUCING ASCORBIC ACID INTERMEDIATES

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
BOSTON, MATTHEW GRANT	SAN CARLOS	CA	US
SWANSON, BARBARA A.	SAN FRANCISCO	CA	US

US-CL-CURRENT: 435/132; 435/138, 435/252.3, 435/41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 14. Document ID: US 20020120119 A1

L4: Entry 14 of 34

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020120119
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020120119 A1

TITLE: 2,5-DKG permeases

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dartois, Veronique A.	San Diego	CA	US
Hoch, James A.	La Jolla	CA	US
Valle, Fernando	Burlingame	CA	US
Kumar, Manoj	Fremont	CA	US

US-CL-CURRENT: 536/23.2; 435/226, 435/320.1, 435/325, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 15. Document ID: US 20020090689 A1

L4: Entry 15 of 34

File: PGPB

Jul 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020090689

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020090689 A1

TITLE: Production of ascorbic acid

PUBLICATION-DATE: July 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kumar, Manoj	Fremont	CA	US

US-CL-CURRENT: 435/138; 435/254.2, 435/254.22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 16. Document ID: US 20020090688 A1

L4: Entry 16 of 34

File: PGPB

Jul 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020090688
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020090688 A1

TITLE: Production of ascorbic acid

PUBLICATION-DATE: July 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kumar, Manoj	Fremont	CA	US

US-CL-CURRENT: 435/138; 435/254.1, 435/254.22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 17. Document ID: US 20020076771 A1

L4: Entry 17 of 34

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076771
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020076771 A1

TITLE: Production of ascorbic acid

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kumar, Manoj	Fremont	CA	US

US-CL-CURRENT: [435/126](#); [435/254.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 18. Document ID: US 6916646 B1

L4: Entry 18 of 34

File: USPT

Jul 12, 2005

US-PAT-NO: 6916646

DOCUMENT-IDENTIFIER: US 6916646 B1

TITLE: Enterobacteriaceae fermentation strains

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 19. Document ID: US 6824996 B2

L4: Entry 19 of 34

File: USPT

Nov 30, 2004

US-PAT-NO: 6824996

DOCUMENT-IDENTIFIER: US 6824996 B2

TITLE: Production of ascorbic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 20. Document ID: US 6808918 B2

L4: Entry 20 of 34

File: USPT

Oct 26, 2004

US-PAT-NO: 6808918

DOCUMENT-IDENTIFIER: US 6808918 B2

TITLE: Production of ascorbic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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L3 near5 dehydrogenase

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Search Results - Record(s) 21 through 30 of 34 returned.

☐ 21. Document ID: US 6720168 B2

Using default format because multiple data bases are involved.

L4: Entry 21 of 34

File: USPT

Apr 13, 2004

US-PAT-NO: 6720168

DOCUMENT-IDENTIFIER: US 6720168 B2

TITLE: 2,5-DKG permeases

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dartois; Veronique A.	San Diego	CA		
Hoch; James A.	La Jolla	CA		
Valle; Fernando	Burlingame	CA		
Kumar; Manoj	Fremont	CA		

US-CL-CURRENT: [435/72](#); [435/252.33](#), [536/27.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 22. Document ID: US 6599722 B2

L4: Entry 22 of 34

File: USPT

Jul 29, 2003

US-PAT-NO: 6599722

DOCUMENT-IDENTIFIER: US 6599722 B2

TITLE: Method for producing ascorbic acid intermediates

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 23. Document ID: US 6358715 B1

L4: Entry 23 of 34

File: USPT

Mar 19, 2002

US-PAT-NO: 6358715

DOCUMENT-IDENTIFIER: US 6358715 B1

TITLE: Production of ascorbic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 24. Document ID: US 6337199 B1

L4: Entry 24 of 34

File: USPT

Jan 8, 2002

US-PAT-NO: 6337199

DOCUMENT-IDENTIFIER: US 6337199 B1

TITLE: Membrane-bound gluconate dehydrogenase, gene sequence encoding the same and production of 2-keto-D-gluconate using transformed recombinant E-coli

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 25. Document ID: US 5856156 A

L4: Entry 25 of 34

File: USPT

Jan 5, 1999

US-PAT-NO: 5856156

DOCUMENT-IDENTIFIER: US 5856156 A

**** See image for Certificate of Correction ****

TITLE: Microbial cholesterol dehydrogenase, process for its production and use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 26. Document ID: US 5032514 A

L4: Entry 26 of 34

File: USPT

Jul 16, 1991

US-PAT-NO: 5032514

DOCUMENT-IDENTIFIER: US 5032514 A

TITLE: Metabolic pathway engineering to increase production of ascorbic acid intermediates

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 27. Document ID: US 5008193 A

L4: Entry 27 of 34

File: USPT

Apr 16, 1991

US-PAT-NO: 5008193

DOCUMENT-IDENTIFIER: US 5008193 A

TITLE: Ascorbic acid intermediates and process enzymes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 28. Document ID: WO 2005012486 A2

L4: Entry 28 of 34

File: EPAB

Feb 10, 2005

PUB-NO: WO2005012486A2

DOCUMENT-IDENTIFIER: WO 2005012486 A2

TITLE: METABOLICALLY ENGINEERED BACTERIAL STRAINS HAVING ENHANCED 2-KETO-D-GLUCONATE ACCUMULATION

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 29. Document ID: US 20050106693 A1, WO 2005012486 A2

L4: Entry 29 of 34

File: DWPI

May 19, 2005

DERWENT-ACC-NO: 2005-132659

DERWENT-WEEK: 200534

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TITLE: Increasing accumulation of 2-keto-D-gluconic acid (2-KDG) in bacterial host cell, by inactivating endogenous gene encoding 2-keto-D-gluconate dehydrogenase which converts 2-KDG to 2,5-diketogluconate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 30. Document ID: US 20020177198 A1

L4: Entry 30 of 34

File: DWPI

Nov 28, 2002

DERWENT-ACC-NO: 2003-370731

DERWENT-WEEK: 200572

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TITLE: Production of ascorbic acid intermediates e.g. 2,5-diketo-D-gluconate, comprising enzymatically oxidizing carbon source

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 21. Document ID: US 6720168 B2

Using default format because multiple data bases are involved.

L4: Entry 21 of 34

File: USPT

Apr 13, 2004

US-PAT-NO: 6720168

DOCUMENT-IDENTIFIER: US 6720168 B2

TITLE: 2,5-DKG permeases

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dartois; Veronique A.	San Diego	CA		
Hoch; James A.	La Jolla	CA		
Valle; Fernando	Burlingame	CA		
Kumar; Manoj	Fremont	CA		

US-CL-CURRENT: [435/72](#); [435/252.33](#), [536/27.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 22. Document ID: US 6599722 B2

L4: Entry 22 of 34

File: USPT

Jul 29, 2003

US-PAT-NO: 6599722

DOCUMENT-IDENTIFIER: US 6599722 B2

TITLE: Method for producing ascorbic acid intermediates

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 23. Document ID: US 6358715 B1

L4: Entry 23 of 34

File: USPT

Mar 19, 2002

US-PAT-NO: 6358715

DOCUMENT-IDENTIFIER: US 6358715 B1

TITLE: Production of ascorbic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 24. Document ID: US 6337199 B1

L4: Entry 24 of 34

File: USPT

Jan 8, 2002

US-PAT-NO: 6337199

DOCUMENT-IDENTIFIER: US 6337199 B1

TITLE: Membrane-bound gluconate dehydrogenase, gene sequence encoding the same and production of 2-keto-D-gluconate using transformed recombinant E-coli

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 25. Document ID: US 5856156 A

L4: Entry 25 of 34

File: USPT

Jan 5, 1999

US-PAT-NO: 5856156

DOCUMENT-IDENTIFIER: US 5856156 A

**** See image for Certificate of Correction ****

TITLE: Microbial cholesterol dehydrogenase, process for its production and use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 26. Document ID: US 5032514 A

L4: Entry 26 of 34

File: USPT

Jul 16, 1991

US-PAT-NO: 5032514

DOCUMENT-IDENTIFIER: US 5032514 A

TITLE: Metabolic pathway engineering to increase production of ascorbic acid intermediates

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 27. Document ID: US 5008193 A

L4: Entry 27 of 34

File: USPT

Apr 16, 1991

US-PAT-NO: 5008193

DOCUMENT-IDENTIFIER: US 5008193 A

TITLE: Ascorbic acid intermediates and process enzymes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 28. Document ID: WO 2005012486 A2

L4: Entry 28 of 34

File: EPAB

Feb 10, 2005

PUB-NO: WO2005012486A2

DOCUMENT-IDENTIFIER: WO 2005012486 A2

TITLE: METABOLICALLY ENGINEERED BACTERIAL STRAINS HAVING ENHANCED 2-KETO-D-GLUCONATE ACCUMULATION

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 29. Document ID: US 20050106693 A1, WO 2005012486 A2

L4: Entry 29 of 34

File: DWPI

May 19, 2005

DERWENT-ACC-NO: 2005-132659

DERWENT-WEEK: 200534

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TITLE: Increasing accumulation of 2-keto-D-gluconic acid (2-KDG) in bacterial host cell, by inactivating endogenous gene encoding 2-keto-D-gluconate dehydrogenase which converts 2-KDG to 2,5-diketogluconate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 30. Document ID: US 20020177198 A1

L4: Entry 30 of 34

File: DWPI

Nov 28, 2002

DERWENT-ACC-NO: 2003-370731

DERWENT-WEEK: 200572

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TITLE: Production of ascorbic acid intermediates e.g. 2,5-diketo-D-gluconate, comprising enzymatically oxidizing carbon source

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L3 near5 dehydrogenase	34

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Search Results - Record(s) 31 through 34 of 34 returned.

☐ 31. Document ID: AU 2001283132 A8, WO 200212481 A2, AU 200183132 A, EP 1305423 A2, JP 2004519213 W, MX 2003001026 A1

Using default format because multiple data bases are involved.

L4: Entry 31 of 34

File: DWPI

Sep 15, 2005

DERWENT-ACC-NO: 2002-241757

DERWENT-WEEK: 200569

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TITLE: Enhancing host cell's biosynthetic production of desired compound that is derived from partially intracellular pathway by increasing transport of extracellular substrate used in the synthetic pathway

INVENTOR: KUMAR, M; VALLE, F

PRIORITY-DATA: 2000US-0677032 (September 29, 2000), 2000US-0633294 (August 4, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>AU 2001283132 A8</u>	September 15, 2005		000	C12N015/31
<u>WO 200212481 A2</u>	February 14, 2002	E	060	C12N015/00
<u>AU 200183132 A</u>	February 18, 2002		000	C12N015/00
<u>EP 1305423 A2</u>	May 2, 2003	E	000	C12N015/31
<u>JP 2004519213 W</u>	July 2, 2004		100	C12N015/09
<u>MX 2003001026 A1</u>	September 1, 2003		000	C12N015/00

INT-CL (IPC): C07 K 14/24; C12 N 1/21; C12 N 15/00; C12 N 15/09; C12 N 15/31;
C12 P 1/00; C12 P 7/60

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 32. Document ID: WO 200037667 A1, AU 200024855 A, EP 1141368 A1, CZ 200102285 A3, KR 2001093149 A, CN 1331749 A, BR 9916848 A, US 20020177197 A1, JP 2003517278 W, US 6599722 B2, MX 2001006337 A1, US 20040180413 A1

L4: Entry 32 of 34

File: DWPI

Jun 29, 2000

DERWENT-ACC-NO: 2000-442684

DERWENT-WEEK: 200572

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TITLE: Non-fermentative production of vitamin C intermediates, useful e.g. as antioxidant, by enzymatic oxidation of glucose and optionally enzymatic reduction

of the products

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

☐ 33. Document ID: KR 320784 B, KR 2000019366 A

L4: Entry 33 of 34

File: DWPI

May 13, 2002

DERWENT-ACC-NO: 2001-088033

DERWENT-WEEK: 200273

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TITLE: Base sequence of novel cell membrane-bound 2-keto-D-gluconate dehydrogenase gene and method for conversion into 2,5-diketo-D-gluconate - NoAbstract

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

☐ 34. Document ID: EP 292303 A, AU 8819391 A, US 5008193 A, WO 8809377 A

L4: Entry 34 of 34

File: DWPI

Nov 23, 1988

DERWENT-ACC-NO: 1988-331844

DERWENT-WEEK: 198847

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TITLE: Prodn. of 2-keto-l-gluconic acid - using microorganism contg. transferred genetic material capable of conversion of glucose or other ordinary metabolite

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L3 near5 dehydrogenase	34

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NEWS 3 DEC 05 CASREACT(R) - Over 10 million reactions available
NEWS 4 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS 6 DEC 14 CA/CAPLUS to be enhanced with updated IPC codes
NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the
IPC reform
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
USPAT2
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
INPADOC
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV
NEWS 13 JAN 30 Saved answer limit increased
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency
added to TULSA
NEWS 15 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist
visualization results
NEWS 16 FEB 22 Status of current WO (PCT) information on STN
NEWS 17 FEB 22 The IPC thesaurus added to additional patent databases on STN
NEWS 18 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 19 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 20 FEB 28 MEDLINE/LMEDLINE reload improves functionality
NEWS 21 FEB 28 TOXCENTER reloaded with enhancements
NEWS 22 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral
property data
NEWS 23 MAR 01 INSPEC reloaded and enhanced
NEWS 24 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 25 MAR 08 X.25 communication option no longer available after June 2006

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
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<http://download.cas.org/express/v8.0-Discover/>

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=> s 2-keto-D-glucon? or kdg

L1 876 2-KETO-D-GLUCON? OR KDG

=> s l1 (3a) dehydrogenase

L2 71 L1 (3A) DEHYDROGENASE

=> dup rem l2

PROCESSING COMPLETED FOR L2

L3 30 DUP REM L2 (41 DUPLICATES REMOVED)

=> d 1-10

L3 ANSWER 1 OF 30 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
DUPLICATE 1

AN 2005-08850 BIOTECHDS

TI New isolated polynucleotide encoding multimeric oxidoreductase complex
having oxidoreductase activity and enabling enzymatic conversions of
carbon substrate to desired product, useful as probe for detecting other
CytC proteins;

recombinant enzyme production via plasmid expression in host cell for
use in ascorbic acid production

AU CALDWELL R M; RASHID M H; VALLE F

PA GENENCOR INT INC

PI WO 2005012547 10 Feb 2005

AI WO 2004-US24204 27 Jul 2004

PRAI US 2003-491151 30 Jul 2003; US 2003-491151 30 Jul 2003

DT Patent

LA English

OS WPI: 2005-162987 [17]

L3 ANSWER 2 OF 30 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 DUPLICATE 2
 AN 2005-06959 BIOTECHDS
 TI Increasing accumulation of 2-keto-D-gluconic acid (2-KDG) in bacterial
 host cell, by inactivating endogenous gene encoding ***2*** -
 keto - ***D*** - ***gluconate*** ***dehydrogenase***
 which converts 2- ***KDG*** to 2,5-diketogluconate;
 involving polymerase chain reaction
 AU DODGE T C; VALLE F; RASHID M H
 PA GENENCOR INT INC
 PI WO 2005012486 10 Feb 2005
 AI WO 2004-US24203 27 Jul 2004
 PRAI US 2003-491150 30 Jul 2003; US 2003-491150 30 Jul 2003
 DT Patent
 LA English
 OS WPI: 2005-132659 [14]

L3 ANSWER 3 OF 30 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 DUPLICATE 3
 AN 2005-29262 BIOTECHDS
 TI Producing 2-keto-L-gulonic acid from carbon source, non-fermentatively,
 involves oxidizing carbon source enzymatically using dehydrogenase
 enzymes having oxidative activity, and reducing oxidation product by
 reductase enzyme;
 2-keto-L-gulonic acid production using bacterium enzyme for use in
 food and pharmaceutical industry
 AU BOSTON M G; SWANSON B A
 PA BOSTON M G; SWANSON B A
 PI US 2005227337 13 Oct 2005
 AI US 2003-470649 20 Nov 2003
 PRAI US 2003-470649 20 Nov 2003; US 1998-218700 22 Dec 1998
 DT Patent
 LA English
 OS WPI: 2005-702119 [72]

L3 ANSWER 4 OF 30 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:1023213 HCAPLUS
 DN 143:324902
 TI Gluconic acid dehydrogenase-deficient microorganisms for the fermentation
 of tartaric acid and 5-keto-D-gulonic acid from glucose
 IN Elfari, Mustafa; Bremus, Christoph; Khodaverdi, Viola; Merfort, Marcel;
 Ha, Seung-Wook; Herrmann, Ute; Bringer-Meyer, Stephanie; Sahm, Hermann;
 Goerisch, Helmut
 PA Technische Universitaet Berlin, Germany; Forschungszentrum Juelich GmbH
 SO Ger. Offen., 42 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 102004010786	A1	20050922	DE 2004-102004010786	20040305
PRAI	DE 2004-102004010786		20040305		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 30 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:211765 HCAPLUS
 DN 138:363740
 TI Sequence of the 165-kilobase catabolic plasmid pA01 from Arthrobacter
 nicotinovorans and identification of a pA01-dependent nicotine uptake
 system
 AU Igloi, Gabor L.; Brandsch, Roderich
 CS Institute of Biology III, Freiburg, Germany
 SO Journal of Bacteriology (2003), 185(6), 1976-1986
 CODEN: JOBAAY; ISSN: 0021-9193
 PB American Society for Microbiology
 DT Journal
 LA English
 RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 30 MEDLINE on STN DUPLICATE 4
AN 2003063187 MEDLINE
DN PubMed ID: 12573242
TI Cloning and expression of the gene encoding catalytic subunit of
thermostable glucose dehydrogenase from Burkholderia cepacia in
Escherichia coli.
AU Inose Ken; Fujikawa Masako; Yamazaki Tomohiko; Kojima Katsuhiko; Sode Koji
CS Department of Biotechnology, Tokyo University of Agriculture and
Technology, 2-24-16 Naka-machi, Tokyo Koganei 184-8588, Japan.
SO Biochimica et biophysica acta, (2003 Feb 21) Vol. 1645, No. 2, pp. 133-8.
Journal code: 0217513. ISSN: 0006-3002.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200305
ED Entered STN: 20030208
Last Updated on STN: 20030508
Entered Medline: 20030507

L3 ANSWER 7 OF 30 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
DUPLICATE 5
AN 2002-11486 BIOTECHDS
TI Enhancing host cell's biosynthetic production of desired compound that is
derived from partially intracellular pathway by increasing transport of
extracellular substrate used in the synthetic pathway;
vector-mediated gene transfer and expression in Pantoea sp. or
Klebsiella sp. and sorbosone-dehydrogenase
AU KUMAR M; VALLE F
PA GENENCOR INT INC
PI WO 2002012481 14 Feb 2002
AI WO 2000-US24600 4 Aug 2000
PRAI US 2000-677032 29 Sep 2000
DT Patent
LA English
OS WPI: 2002-241757 [29]

L3 ANSWER 8 OF 30 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
DUPLICATE 6
AN 2003-15169 BIOTECHDS
TI Production of ascorbic acid intermediates e.g. 2,5-diketo-D-gluconate,
comprising enzymatically oxidizing carbon source;
involving fermentation and vector-mediated gene transfer and
expression in host cell
AU BOSTON M G; SWANSON B A
PA BOSTON M G; SWANSON B A
PI US 2002177198 28 Nov 2002
AI US 1999-470168 22 Dec 1999
PRAI US 1999-470168 22 Dec 1999; US 1998-218700 22 Dec 1998
DT Patent
LA English
OS WPI: 2003-370731 [35]

L3 ANSWER 9 OF 30 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
DUPLICATE 7
AN 2003-05656 BIOTECHDS
TI Production of ascorbic acid or ascorbic acid stereoisomer in yeast by
obtaining yeast capable of utilizing 2-keto-L-gulonic acid, and culturing
the yeast in the presence of carbon source;
vitamin production via fungus culture medium fermentation for
pharmaceutical
AU KUMAR M
PA KUMAR M
PI US 2002090688 11 Jul 2002
AI US 2001-26139 18 Dec 2001
PRAI US 2001-26139 18 Dec 2001; US 1998-205874 4 Dec 1998
DT Patent
LA English
OS WPI: 2003-038807 [03]

L3 ANSWER 10 OF 30 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 8

AN 2002:466617 HCAPLUS
DN 137:32151
TI Production of ascorbic acid using yeast
IN Kumar, Manoj
PA Genencor International, Inc., USA
SO U.S. Pat. Appl. Publ., 11 pp., Cont.-in-part of Ser. No. US 1998-205874,
filed on 4 Dec 1998
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002076771	A1	20020620	US 2001-26586	20011218
	US 6808918	B2	20041026		
	US 6358715	B1	20020319	US 1998-205874	19981204
PRAI	US 1998-205874	A2	19981204		

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 10 ab

L3 ANSWER 10 OF 30 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 8
AB The present invention provides for the prodn. of ascorbic acid (ASA) from
yeast capable of producing ASA from 2-keto-L-gulonic acid. The present
invention provides methods for the prodn. of ASA as well as recombinant
yeast capable of producing ASA from a C source.

=> d 11-20

L3 ANSWER 11 OF 30 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:522531 HCAPLUS
DN 137:78008
TI Production of ascorbic acid
IN Kumar, Manoj
PA USA
SO U.S. Pat. Appl. Publ., 11 pp., Cont.-in-part of U.S. Ser. No. 205,874.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002090689	A1	20020711	US 2001-26587	20011218
	US 6358715	B1	20020319	US 1998-205874	19981204
PRAI	US 1998-205874	A2	19981204		

L3 ANSWER 12 OF 30 MEDLINE on STN DUPLICATE 9
AN 2001166025 MEDLINE
DN PubMed ID: 11263965
TI Cloning and expression of glucose 3-dehydrogenase from Halomonas sp.
alpha-15 in Escherichia coli.
AU Kojima K; Tsugawa W; Sode K
CS Department of Biotechnology, Tokyo University of Agriculture and
Technology, 2-24-16 Naka-machi, Koganei, Tokyo, 184-8588, Japan.
SO Biochemical and biophysical research communications, (2001 Mar 23) Vol.
282, No. 1, pp. 21-7.
Journal code: 0372516. ISSN: 0006-291X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200104
ED Entered STN: 20010417
Last Updated on STN: 20010417
Entered Medline: 20010412

L3 ANSWER 13 OF 30 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
DUPLICATE 10
AN 2000-11875 BIOTECHDS

TI Non-fermentative production of vitamin-C intermediates, useful e.g. as antioxidant, by enzymatic oxidation of glucose and optionally enzymatic reduction of the products;
 ascorbic acid production with coenzyme regeneration
 AU Boston M G; Swanson B A
 PA Genencor
 LO Rochester, NY, USA.
 PI WO 2000037667 29 Jun 2000
 AI WO 1999-US30918 22 Dec 1999
 PRAI US 1998-218700 22 Dec 1998
 DT Patent
 LA English
 OS WPI: 2000-442684 [38]

L3 ANSWER 14 OF 30 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 DUPLICATE 11
 AN 2000-12700 BIOTECHDS
 TI Production of ascorbic acid, useful as pharmaceutical and food additive, from yeast using strains, optionally recombinant, able to convert 2-keto-L-gluconic acid;
 using Candida blankii and Cryptococcus dimennae culture
 AU Kumar M
 PA Genencor
 LO Rochester, NY, USA.
 PI WO 2000034502 15 Jun 2000
 AI WO 1999-US28669 3 Dec 1999
 PRAI US 1998-205874 4 Dec 1998
 DT Patent
 LA English
 OS WPI: 2000-498750 [44]

L3 ANSWER 15 OF 30 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 12
 AN 2002:80715 HCAPLUS
 DN 136:97322
 TI DNA sequence of Erwinia herbicola membrane-bound ***2*** - ***keto***
 - ***D*** - ***gluconate*** ***dehydrogenase*** and uses thereof
 in 2,5-diketo-D-gluconate production
 IN Shin, Yong Chul; Pan, Jae Gu; Yeom, Do Yeong
 PA Korea Institute of Science and Technology, S. Korea
 SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
 CODEN: KRXXA7
 DT Patent
 LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	KR 2000019366	A	20000406	KR 1998-37413	19980910
PRAI	KR 1998-37413		19980910		

L3 ANSWER 16 OF 30 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
 AN 1997:797429 SCISEARCH
 GA The Genuine Article (R) Number: YC935
 TI Cloning and expression of a gene cluster encoding three subunits of membrane-bound gluconate dehydrogenase from Erwinia cypripedii ATCC 29267 in Escherichia coli
 AU Yum D Y (Reprint); Lee Y P; Pan J G
 CS KOREA RES INST BIOSCI & BIOTECHNOL, BIOPROC ENGN DIV, TAEJON 305600, SOUTH KOREA; LG CHEM LTD, BIOTECH RES INST, TAEJON 305380, SOUTH KOREA
 CYA SOUTH KOREA
 SO JOURNAL OF BACTERIOLOGY, (NOV 1997) Vol. 179, No. 21, pp. 6566-6572. ISSN: 0021-9193.
 PB AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171.
 DT Article; Journal
 FS LIFE
 LA English
 REC Reference Count: 40
 ED Entered STN: 1997
 Last Updated on STN: 1997
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 17 OF 30 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 1995:370514 HCAPLUS
 DN 122:128000
 TI Enzymic determination of 2-keto-D-gluconate and 5-keto-D-gluconate
 AU Ameyama, M.; Shinagawa, E.; Matsushita, K.; Adachi, O.
 CS Faculty Agriculture, Yamaguchi University, Yamaguchi, Japan
 SO Methods in Carbohydrate Chemistry (1994), 10, 75-8
 CODEN: MCACAI; ISSN: 0097-3602
 PB Wiley
 DT Journal
 LA English

L3 ANSWER 18 OF 30 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN DUPLICATE 13
 AN 1994:184251 BIOSIS
 DN PREV199497197251
 TI Nonphosphorylated glucose catabolism by Penicillium citrinum.
 AU Elzainy, T. A.; Allam, A. M.
 CS Lab. Microbial Chemistry, National Res. Cent., Cairo, Egypt
 SO Annali di Microbiologia ed Enzimologia, (1993) Vol. 43, No. 2, pp.
 169-179.
 CODEN: AMEZAB. ISSN: 0003-4649.
 DT Article
 LA English
 ED Entered STN: 26 Apr 1994
 Last Updated on STN: 25 Jun 1994

L3 ANSWER 19 OF 30 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 1992:57516 HCAPLUS
 DN 116:57516
 TI Metabolic pathway engineering to increase production of ascorbic acid
 intermediate 2-keto-L-gulononic acid
 IN Anderson, Stephen; Lazarus, Robert A.; Miller, Harvey I.; Stafford, R.
 Kevin
 PA Genentech, Inc., USA
 SO U.S., 34 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5032514	A	19910716	US 1988-229598	19880808
PRAI	US 1988-229598		19880808		

L3 ANSWER 20 OF 30 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 14
 AN 1989:402173 HCAPLUS
 DN 111:2173
 TI Manufacture of ascorbic acid precursor ketogulononic acid with recombinant
 microorganisms
 IN Anderson, Stephen; Light, David R.; Marks, Cara; Rastetter, William H.
 PA Genentech, Inc., USA
 SO Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 292303	A1	19881123	EP 1988-304581	19880520
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	US 5008193	A	19910416	US 1987-53290	19870521
	WO 8809377	A1	19881201	WO 1988-US1669	19880519
	W: AU, JP				
	AU 8819391	A1	19881221	AU 1988-19391	19880519
	AU 612672	B2	19910718		
PRAI	US 1987-53290	A	19870521		
	US 1983-508410	B2	19830628		
	US 1984-620585	B2	19840614		
	WO 1988-US1669	A	19880519		

=> dis his

(FILE 'HOME' ENTERED AT 13:41:42 ON 10 MAR 2006)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 13:41:52 ON 10 MAR 2006

L1 876 S 2-KETO-D-GLUCON? OR KDG
L2 71 S L1 (3A) DEHYDROGENASE
L3 30 DUP REM L2 (41 DUPLICATES REMOVED)

=> log h

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

63.45	63.66
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-0.75	-0.75
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SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:51:25 ON 10 MAR 2006